SIEMENS

Data sheet

3RK1301-0CB13-0AA2

F-DS1E-X FOR ET 200S FAILSAFE DIRECT STARTER SETTING RANGE 2.4...16A, MECHANICAL SWITCHING, ELECTRONIC PROTECTION, AC-3, TO 7.5KW/400V, CAN BE EXPANDED, FOR BRAKE CONTROL MODULE FOR 2DI CONTROL MODUL



product brandname	Sirius
Product designation	motor starter ET 200S
Design of the product	direct starter
Product function	
Bus communication	Yes
• direct start	Yes
• reverse starting	No
• on-site operation	Yes
 Short circuit protection 	Yes
Design of the switching contact	electromechanical
Product component Motor brake output	Yes
Trip class	CLASS 10 and 20 adjustable
Type of assignment	2
Product feature	
 brake control with 230 V AC 	No
 brake control with 24 V DC 	No
 brake control with 180 V DC 	No
 brake control with 500 V DC 	No

Deschart extension bashing medule for bashs control	-	M
Product extension braking module for brake control		Yes
Surge voltage resistance rated value	kV	6
Insulation voltage rated value	V	500
Power loss [W] typical	W	18
maximum permissible voltage for safe isolation	V	400
between main and auxiliary circuit		
Equipment marking acc. to DIN EN 61346-2		Q
Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		A
Mounting type	-	pluggable on terminal module
Depth	mm	150
Height	mm	290
Width	mm	65
Main circuit:		
Operating voltage rated value	V	200 400
Adjustable pick-up value current of the current- dependent overload release	A	2.4 16
Operating power		
 at AC-3 at 400 V rated value 	kW	7.5
 for three-phase motors at 400 V at 50 Hz minimum 	kW	1.1
 for three-phase motors at 400 V at 50 Hz maximum 	kW	7.5
Maximum short-circuit current breaking capacity (Icu) at 400 V rated value	kA	50
Design of short-circuit protection		circuit-breakers
Number of poles for main current circuit	-	3
Type of the motor protection	-	solid-state
Mechanical service life (switching cycles) of the main contacts typical		100 000
Control circuit/ Control:		
Type of voltage of the control supply voltage		DC
Control supply voltage 1 at DC	V	24 24
Control supply voltage 1 at DC rated value	V	21.6 26.4
Supply voltage:		
Type of voltage of the supply voltage		DC
Supply voltage 1 at DC	V	24 24
Supply voltage 1 at DC rated value	V	20.4 28.8
Ambient conditions:		
Protection class IP		IP20
Ambient temperature		
 during operation 	°C	0 60

	°C	-40 +70		
during storage	°C			
during transport		-40 +70		
Relative humidity during operation	%	595		
Vibration resistance		2g		
Shock resistance		5g / 11 ms		
Degree of pollution		3 at 400 V, 2 at 500 V according to IEC60664 (IEC61131)		
Installation altitude at height above sea level maximum	m	2 000		
Mounting position	_	vertical, horizontal		
Communication/ Protocol:				
Protocol is supported				
 PROFIBUS DP protocol 		Yes		
 PROFINET protocol 		Yes		
AS-interface protocol		No		
Design of the interface PROFINET protocol	_	Yes		
Type of electrical connection	_			
 of the communication interface 		via backplane bus		
 for communication transmission 		via backplane bus		
Connections/ Terminals:				
Number of digital inputs		2		
Number of sockets				
 for digital input signals 		0		
 for digital output signals 		0		
Product function	_			
 digital inputs parameterizable 		Yes		
 digital outputs parameterizable 		No		
Type of electrical connection	_			
 1 for digital input signals 		using control module		
 2 for digital input signals 		using control module		
Type of electrical connection	_			
• at the manufacturer-specific device interface		plug		
 for main energy infeed 		screw-type terminals		
 for load-side outgoing feeder 		Screw-type terminals		
 for main energy transmission 		via energy bus		
 for supply voltage line-side 		via backplane bus		
 for supply voltage transmission 		via backplane bus		
 for main current circuit 		screw-type terminals		
Electromagnetic compatibility:				
EMI immunity acc. to IEC 60947-1		corresponds to degree of severity 3, ambience A (industrial sector)		

Conducted interference due to burst acc. to IEC 61000-4-4	2 kV on voltage supply, inputs and outputs
Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5	2 kV (U > 24 V DC)
Conducted interference due to conductor-conductor surge acc. to IEC 61000-4-5	1 kV (U > 24 V DC)
Field-bound parasitic coupling acc. to IEC 61000-4-3	80 MHz 1 GHz 10 V/m, 1.4 GHz2 Hz 3 V/m, 2 GHz 2.7 GHz 1 V/m
EMC emitted interference acc. to IEC 60947-1	CISPR11, ambience A (industrial sector)

Safety related data:

Protection against electrical shock

finger-safe

Certificates/ approvals:							
General Prod	uct Approval			Functional	Declaration of		
				Safety/Safety	Conformity		
				of Machinery			
	(SA)		EHC	Type Examination	EG-Konf.		

 Test Certificates
 other

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urther information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system) http://www.siemens.com/industrymall

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1301-0CB13-0AA2

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RK1301-0CB13-0AA2

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1301-0CB13-0AA2&lang=en______

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